















ESD

TVS

MOS

LDO

Diode

Sensor

DC-DC

Product Specification

Domestic Part Number	EVBAV23/XX-S1
Overseas Part Number	BAV23/XX
▶ Equivalent Part Number	BAV23/XX

"S1" means SOT-23





Silicon Epitaxial Planar Diodes

High voltage switching diode













EVBAV23-S1 Marking Code: **HC**EVBAV23SE-S1 Marking Code: **PY**EVBAV23CC-S1 Marking Code: **PZ**EVBAV23CA-S1 Marking Code: **RA**SOT-23 Plastic Package

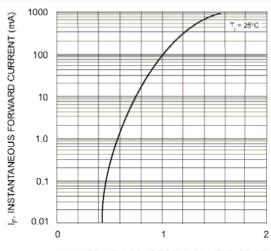
Absolute Maximum Ratings ($T_a = 25$ °C)

Parameter		Symbol	Value	Unit
Maximum Repetitive Reverse Voltage		V_{RRM}	250	V
Reverse Voltage		V_{R}	200	V
Forward Current		$I_{F(AV)}$	400	mA
Repetitive Peak Forward Current		I _{FRM}	625	mA
Non-repetitive Peak Forward Surge Current	at t = 10 ms at t = 100 µs at t = 1 µs	I _{FSM}	1.7 3 9	Α
Power Dissipation		P _{tot}	350	mW
Thermal Resistance Junction to Ambient Air		$R_{ heta JA}$	357	°C/W
Operating Junction and Storage Temperature Range		T_j , T_{stg}	- 65 to + 150	°C

Characteristics at T_a = 25 $^{\circ}$

Parameter	Symbol	Min.	Max.	Unit
Reverse Breakdown Voltage at I _R = 100 μA	$V_{(BR)R}$	250	-	V
Forward Voltage at $I_F = 100 \text{ mA}$ at $I_F = 200 \text{ mA}$	V _F	-	1 1.25	V
Reverse Current at V_R = 200 V, T_j = 25 °C at V_R = 200 V, T_j = 150 °C	I _R	- -	100 100	nΑ μΑ
Total Capacitance at $V_R = 0 \text{ V}$, $f = 1 \text{ MHz}$	C_{tot}	-	5	pF
Reverse Recovery Time at $I_F = I_R = 30$ mA, $I_{rr} = 0.1$ X I_R , $R_L = 100$ Ω	t _{rr}	-	50	ns





100 100 200

 $V_{\rm F}$, INSTANTANEOUS FORWARD VOLTAGE (V) Fig. 1 Forward Characteristics

 $\label{eq:tj} \textbf{T}_{j}, \, \text{JUNCTION TEMPERATURE (°C)} \\ \text{Fig. 2 Leakage Current vs Junction Temperature}$



Disclaimer

EVVOSEMI ("EVVO") reserves the right to make corrections, enhancements, improvements, and other changes to its products and services at any time, and to discontinue any product or service without notice.

EVVO warrants the performance of its hardware products to the specifications applicable at the time of sale in accordance with its standard warranty. Testing and other quality control techniques are used as deemed necessary by EVVO to support this warranty. Except where mandated by government requirements, testing of all parameters of each product is not necessarily performed.

Customers should obtain and confirm the latest product information and specifications before final design, purchase, or use. EVVO makes no warranty, representation, or guarantee regarding the suitability of its products for any particular purpose, nor does EVVO assume any liability for application assistance or customer product design. EVVO does not warrant or accept any liability for products that are purchased or used for any unintended or unauthorized application.

EVVO products are not authorized for use as critical components in life support devices or systems without the express written approval of EVVOSEMI.

The EVVO logo and EVVOSEMI are trademarks of EVVOSEMI or its subsidiaries in relevant jurisdictions. EVVO reserves the right to make changes without further notice to any products herein.